



		1	6	25
HPS 65 - <u>M.T.</u>	-----	-----	MAKTI	AYDEEARRGL ERGLNALADA
HSP 60 - <u>RAT</u>	MLRLPTVLRQ	MRPVSRALAP	HLTRAYAKDV	KFGADARALM LQGVDLLADA
HSP 60 - <u>HUMAN</u>	MLRLPTVFRQ	MRPVSRVLAP	HLTRAYAKDV	KFGADARALM LQGVDLLADA
Consensus	-----	-----	AK--	AR--- --G---LADA

	26	75
HPS 65 - <u>M.T.</u>	VKVTLGPKGR	NNVLEKKWGA PTITNDGVSI AKEIELEDPY EKIGAELVKE
HSP 60 - <u>RAT</u>	VAVTMGPKGR	TVIIEQSWGS PKVTKDGVTV AKSIDLKDKY KNIGAKLVQD
HSP 60 - <u>HUMAN</u>	VAVTMGPKGR	TVIIEQSWGS PKVTKDGVTV AKSIDLKDKY KNIGAKLVQD
Consensus	V-VT-GPKGR	-V--E--WG- P--T-DGV-- AK-I-L-D-Y --IGA-LV--

6-7 (31-52 AA)

	76	125
HPS 65 - <u>M.T.</u>	VAKKTDDVAG	DGTTTATVLA QALVREGLRN VAAGANPLGL KRGIEKAVEK
HSP 60 - <u>RAT</u>	VANNTNEEAG	DGTTTATVLA RSIAGEGF EK ISKGANPVEI RRGVMLAVDA
HSP 60 - <u>HUMAN</u>	VANNTNEEAG	DGTTTATVLA RSIAGEGF EK ISKGANPVEI RRGVMLAVDA
Consensus	VA--T---AG	DGTTTATVLA -----EG--- ---GANP--- -RG---AV--

21 (121-136 AA)

	126	174
HPS 65 - <u>M.T.</u>	VTETLIKGAK	EVETKEQIAA TAAISA.GDQ SIGDLIAEAM DKVGNQGVIT
HSP 60 - <u>RAT</u>	VIAELKKQSK	PVTTPPEIAQ VATISANGDK DIGNIISDAM KKVGRKGVIT
HSP 60 - <u>HUMAN</u>	VIAELKKQSK	PVTTPPEIAQ VATISANGDK EIGNIISDAM KKVGRKGVIT
Consensus	V---L-K--K	-V-T-E-IA- -A-ISA-GD- -IG--I--AM -KVG--GVIT

	175	224
HPS 65 - <u>M.T.</u>	VEESNTFGLQ	LELTEGMRFD RGYISGYFVT DPERQEAVLE DPTILLVSSK
HSP 60 - <u>RAT</u>	VKDGKTLNDE	LEIIEGMRFD RGYISPYFIN TSKGQKCEPQ DAYVLLSEKK
HSP 60 - <u>HUMAN</u>	VKDGKTLNDE	LEIIEGMRFD RGYISPYFIN TSKGQKCEPQ DAYVLLSEKK
Consensus	V----T----	LE--EGM-FD -GYIS-YF-- ----Q----- D-Y-LL---K

31 (181-196 AA)

36 (211-226 AA)

	225	274
HPS 65 - <u>M.T.</u>	VSTVKDLLPL	LEKVIGAGKP LLIIAEDVEG EALSTLVVNK IRGTFKSVAV
HSP 60 - <u>RAT</u>	ISSVQSIVPA	LEIANAHRKP LVIIAEDVDG EALSTLVNLR LKVGQLQVVAV
HSP 60 - <u>HUMAN</u>	ISSIQSIVPA	LEIANAHRKP LVIIAEDVDG EALSTLVNLR LKVGQLQVVAV
Consensus	-S-----P-	LE-----KP L-IIAEDV-G EALSTLV-N- -----VAV

FIG. 1A

40 (236-251 AA)

45 (265-280 AA)



275. 323
HPS 65 - M.T. KAPGFGDRRK AMLQDMAILT GGQVISEE.V GLTLENADLS LLGXARKVVV
HSP 60 - RAT KAPGFGDNRK NQLKDMAIAT GGAVFGEEGL NLNLEDVQAH DLGKVGEVIV
HSP 60 - HUMAN KAPGFGDNRK NQLKDMAIAT GGAVFGEEGL TLNLEDVQPH DLGKVGEVIV
Consensus KAPGFGD-RK --L-DMAI-T GG-V--EE-- -L-LE----- -LGK---V-V

324 373
HPS 65 - M.T. TKDETTIVEG AGDTDAIAGR VAQIRQEIEN SDSYDREKL QERLAKLAGG
HSP 60 - RAT TKDDAMLLKG KGDKAHIEKR IQEITEQLDI TTSEYEKEL NERLAKLSDG
HSP 60 - HUMAN TKDDAMLLKG KGDKAQIEKR IQEIIIEQLDV TTSEYEKEL NERLAKLSDG
Consensus TKD-----G -GD---I--R ---I----- -S-Y--EKL -ERLAKL--G

59 (349-364 AA)

374 423
HPS 65 - M.T. VAVIKAGAAT EVELKERKHR IEDAVRNAKA AVEEGIVAGG GVTLLQAAPT
HSP 60 - RAT VAVLKVGGTS DVEVNEKKDR VTDALNATRA AVEEGIVLGG GCALLRCIPA
HSP 60 - HUMAN VAVLKVGGTS DVEVNEKKDR VTDALNATRA AVEEGIVLGG GCALLRCIPA
Consensus VAV-K-G--- -VE--E-K-R --DA-----A AVEEGIV-GG G--LL---P-

63 (373-388 AA)

424 472
HPS 65 - M.T. LDELK.LEGD EATGANIVKV ALEAPLKQIA FNSGLEPGVV AEKVRNLPAG
HSP 60 - RAT LDSLKPANED QKIGIEIIKR ALKIPAMTIA KNAGVEGSLI VEKILQSSSE
HSP 60 - HUMAN LDSLTPANED QKIGIEIIKR TLKIPAMTIA KNAGVEGSLI VEKIMQSSSE
Consensus LD-L-----D ---G--I-K- -L--P---IA -N-G-E----- -EK-----

473 522
HPS 65 - M.T. HGLNAQTGVY EDLLAAGVAD PVKVTRSAHQ NAASIAGLFL TTEAVVADKP
HSP 60 - RAT VGYDAMLGDF VNMVEKGIID PTKVVRTALL DAAGVAPLLT TAEAVVTEIP
HSP 60 - HUMAN VGYDAMAGDF VNMVEKGIID PTKVVRTALL DAAGVASLLT TAEVVVTEIP
Consensus -G--A--G-- -----G--D P-KV-R-AL- -AA--A-L-- T-E-VV---P

84 (499-514 AA)

523 540
HPS 65 - M.T. EKEKASVPGG GDMGGMDF-- -----
HSP 60 - RAT KEEKD..PGM GAMGGMGGGM GGGMF
HSP 60 - HUMAN KEEKD..PGM GAMGGMGGGM GGGMF
Consensus --EK---PG- G-MGGM-----

FIG. 1B

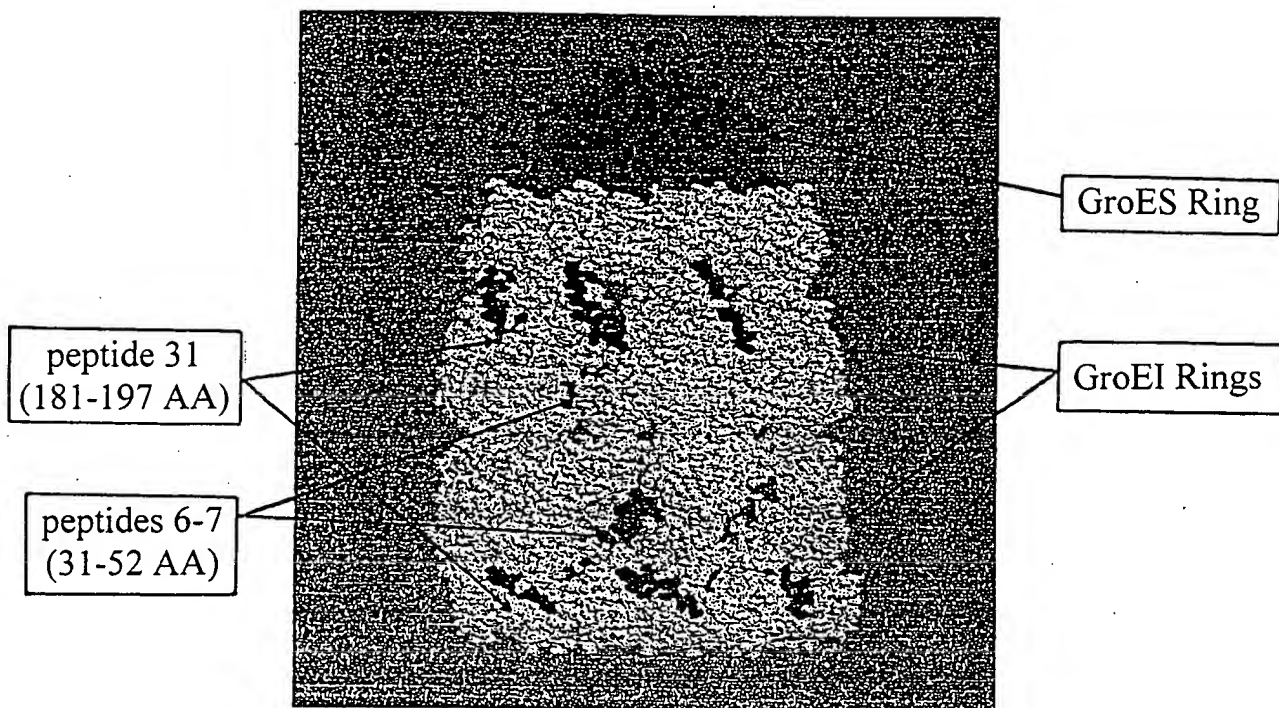


FIG. 2

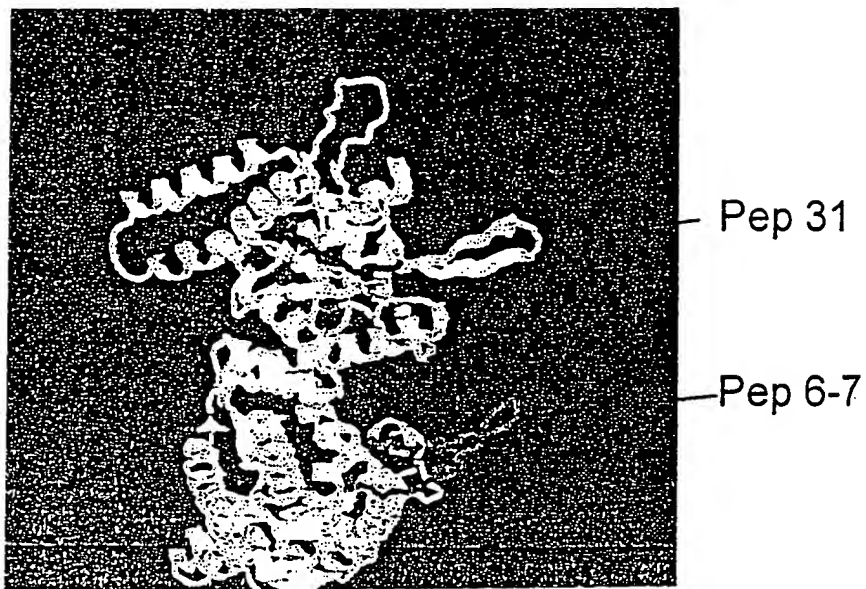


FIG. 3A

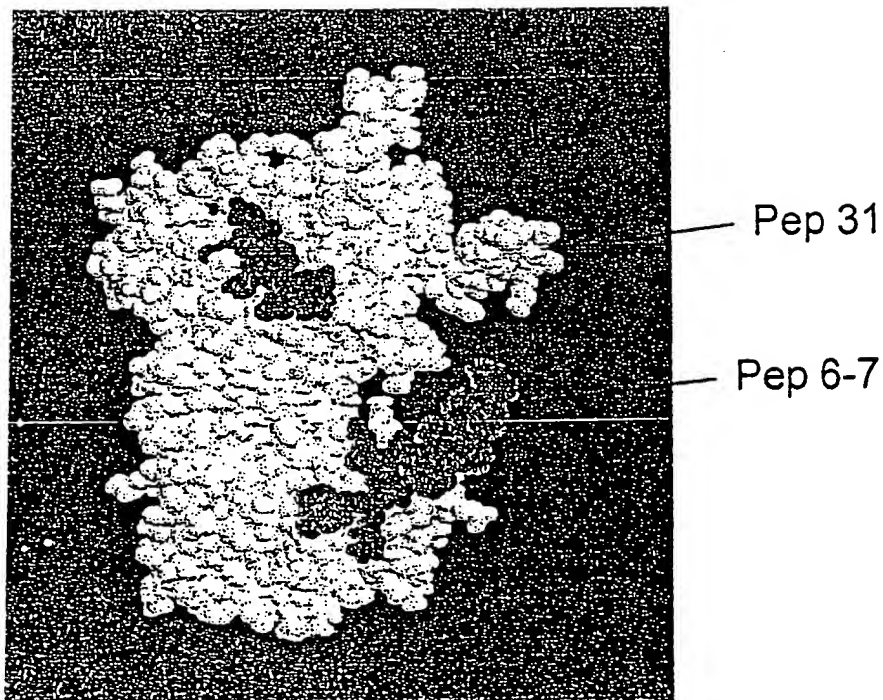


FIG. 3B

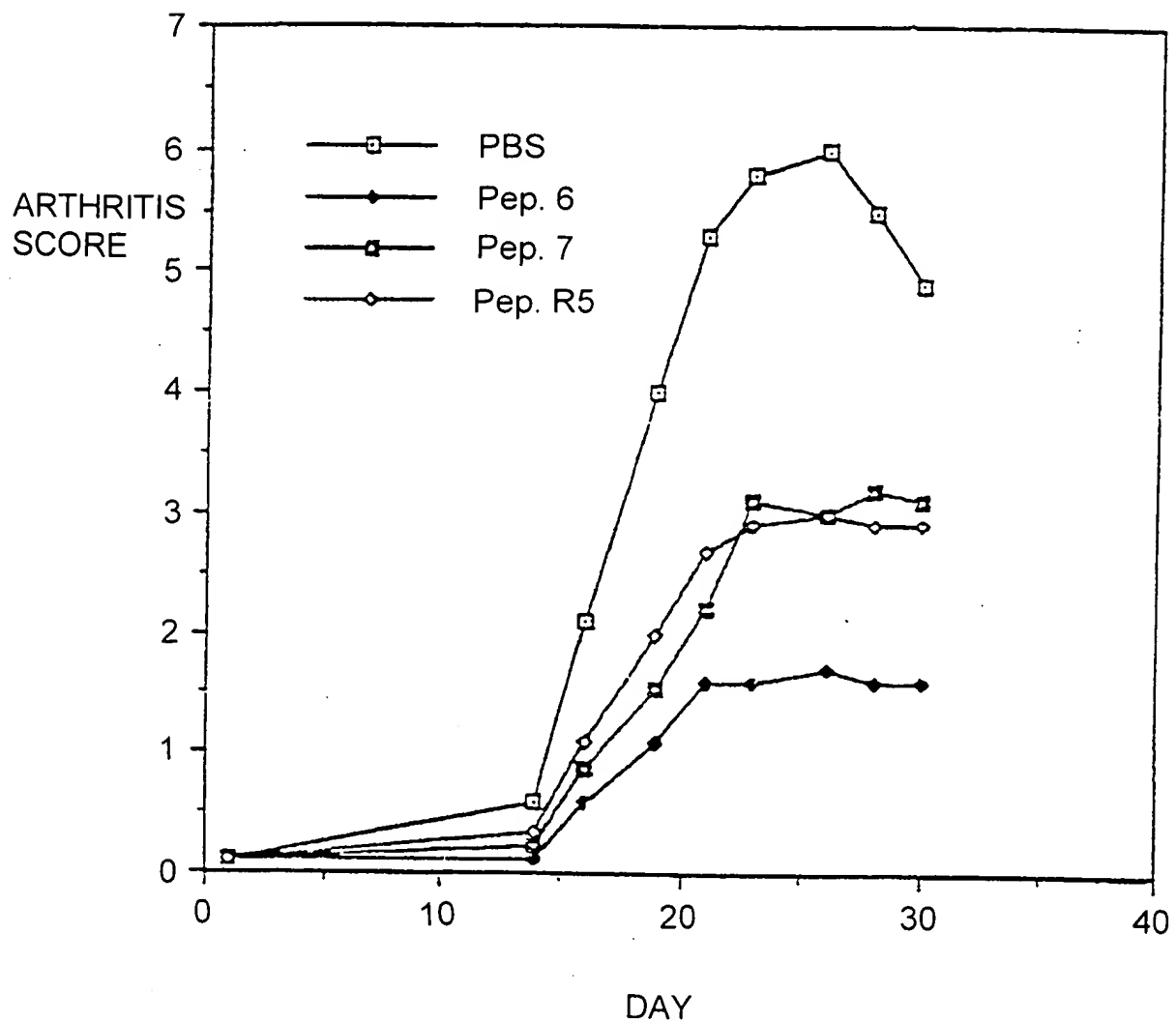


FIG. 4



The "Protective" Motif

MT	HSP Peptide 6- (31-46)	G P K G R N <u>V</u> <u>V</u> L <u>E</u> K K <u>W</u> <u>G</u> A <u>P</u>
MT	HSP Peptide 7- (37-52)	<u>V</u> <u>V</u> L <u>E</u> K K <u>W</u> <u>G</u> A <u>P</u> T I T N D G
Rat	HSP Peptide 5- (36-55)	T <u>V</u> I I <u>E</u> Q S <u>W</u> <u>G</u> S <u>P</u> K V T K D G V T V
Common Motif		V = E - - W G - P

FIG. 5

Applicant(s): Yaakov Naparstek et al.

NOVEL AMINO ACID SEQUENCES, DNA ENCODING THE
AMINO ACID SEQUENCES, ANTIBODIES DIRECTED
AGAINST SUCH SEQUENCES AND THE DIFFERENT USES
THEREOF

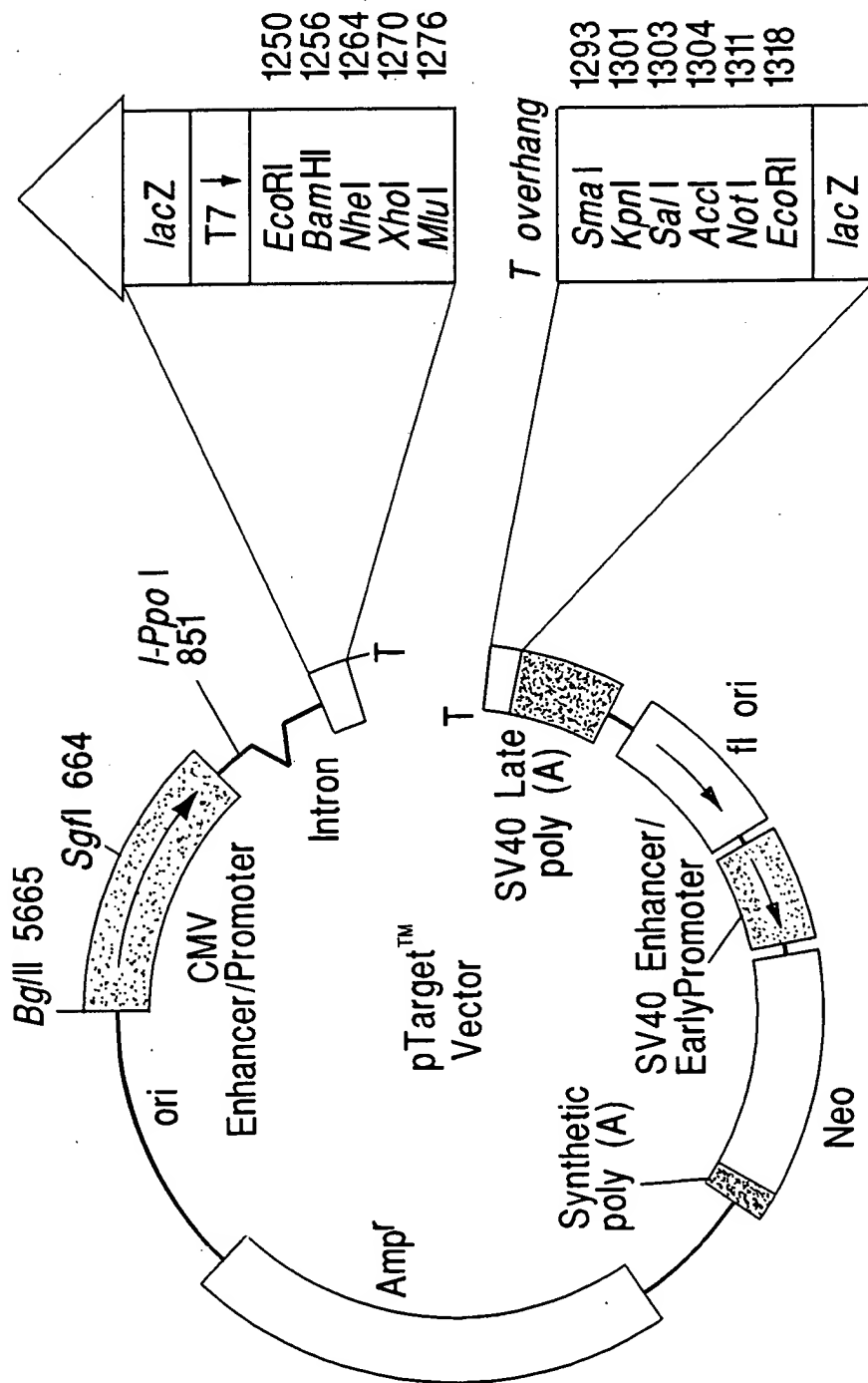


FIG. 6